

STIC Search Report

STIC Database Tracking Number 1988

TO: Nadia Khoshnoodi Location: RND 2B65

Art Unit: 2133

Wednesday, May 25, 2005

Case Serial Number: 09/728292

From: David Holloway Location: EIC 2100

RND 4B19 Phone: 2-3528

david.holloway@uspto.gov

Search Notes

Dear Examiner Khoshnoodi,

Attached please find your search results for above-referenced case. Please contact me if you have any questions or would like a re-focused search.

David





STIC EIC 2100 | 54364 Search Request Form

<u> </u>	
Today's Date:	What date would you like to use to limit the search?
5-25-2@S	Priority Date: 5/25/2000 Other:
N Nod: Word	1:
Name Nadia Khashnoo	
AU 2133 Examine	r# 80432 PAPER DISK EMAIL
Room # <u>2865</u> Phon	Where have you searched so far?
•	() USE DWPI EPO CIPO ACM IBM TOR
Serial # <u>\$69</u> / 728,29 2	IEEE INSPEC SPI Other
le this a "Fact & Facure III C	
A "Fast & Focused" Search is com	earch Request? (Circle One) YES NO upleted in 2-3 hours (maximum). The search must be on a very specific topic and
inteer certain chiena. The chiena a	are posted in EIC2100 and on the EIC2100 NPL Web Page at
http://ptoweb/patents/stic/stic-tc21	oo.ntm.
What is the topic, novelty, motivati	on, utility, or other specific details defining the desired focus of this search? Please
include the concepts, synonyms, k	eywords, acronyms, definitions, strategies, and anything else that helps to describe the abstract, background, brief summary, pertinent claims and any citations of
relevant art you have found.	
2 dia anothered	•
Bar cading method	loo inga Markaga inga
modulating a m	we image, the base image being a
handwitten	Signature.
Juhene "man	ulating" & vectorizing the hand written
600 C 11100	mading is recisive
signature	
also when mode	elating the base image, doing so
do a smol	sical anxiolism of the signed Message
Willia a grap.	rical encoding of the signed Message
/ Basically some	thing like a nandwritten signature)
1 applied in	a bar code
Eniberation	shing like a handwritten-signature a ban code salthough it's geared towards
>claim 7 5490	3217 bour codes, something like water-marking may also work
STIC Searcher	Colloway Phone 2-3528
Date nicked up 5 - 25 - 0 F	Data Completed T-25-05-



```
Set
        Items
                Description
                BARCOD? OR (PRODUCT? OR BAR) () (CODING OR CODE?) OR ISBN OR
S1
        18548
             UPC OR UNIVERSAL() PRODUCT() CODE? OR EAN OR POSTNET OR CODABAR
             OR CODE128 OR CODE()128
S2
        31538
                HANDWRIT? OR HAND() (WRITTEN OR WRITING) OR AUTOGRAPH? OR C-
             URSIV? OR LONGHAND?
                S2(2N) (VECTOR? OR MODULAT? OR ENCRYPT? OR ENCIPHER? OR ENC-
S3
          311
             YPHER? OR STEGANOGRAPH? OR WATERMARK?)
S4
            0
                S1 AND S3
           74
S5
                S1 AND S2
                S5 AND (VECTOR? OR MODULAT? OR ENCRYPT? OR ENCOD? OR ENCYP-
S6
           12
             HER? OR ENCIPHER? OR STEGANOGRAPH? OR WATERMARK?)
S7
           10
                S1(2N)S2
           19
S8
                S6 OR S7
S9
           23
                S5 AND (COMBIN? OR MERG? OR EMBED? OR INTEGRAT? OR INCORPO-
             RAT? OR WATERMARK? OR STEGANOGRAPH?)
S10
           33
                S8 OR S9
                RD (unique items)
S11
           21
S12
                S11 NOT PY>2000
           13
File
       8:Ei Compendex(R) 1970-2005/May W3
         (c) 2005 Elsevier Eng. Info. Inc.
File
      35:Dissertation Abs Online 1861-2005/May
         (c) 2005 ProQuest Info&Learning
      65:Inside Conferences 1993-2005/May W4
File
         (c) 2005 BLDSC all rts. reserv.
       2:INSPEC 1969-2005/May W3
File
         (c) 2005 Institution of Electrical Engineers
File
      94:JICST-EPlus 1985-2005/Apr W1
         (c)2005 Japan Science and Tech Corp(JST)
File 111:TGG Natl.Newspaper Index(SM) 1979-2005/May 23
         (c) 2005 The Gale Group
File
       6:NTIS 1964-2005/May W3
         (c) 2005 NTIS, Intl Cpyrght All Rights Res
File 144:Pascal 1973-2005/May W3
         (c) 2005 INIST/CNRS
File
      34:SciSearch(R) Cited Ref Sci 1990-2005/May W4
         (c) 2005 Inst for Sci Info
      99:Wilson Appl. Sci & Tech Abs 1983-2005/Apr
File
         (c) 2005 The HW Wilson Co.
File
      95:TEME-Technology & Management 1989-2005/Apr W3
         (c) 2005 FIZ TECHNIK
```

(Item 3 from file: 8) DIALOG(R) File 8:Ei Compendex(R) (c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

E.I. No: EIP97103884181 04852930

Integration of hand - written address interpretation Title: technology into the United States Postal Service Remote Computer Reader System

Author: Srihari, Sargur N.; Kuebert, Edward J.

Corporate Source: State Univ of New York at Buffalo, Amherst, NY, USA Conference Title: Proceedings of the 1997 4th International Conference on Document Analysis and Recognition, ICDAR. Part 2 (of 2)

Conference Date: 19970818-19970820 Conference Location: Ulm, Ger

Sponsor: IEEE

E.I. Conference No.: 47157

Source: Proceedings of the International Conference on Document Analysis and Recognition, ICDAR v 2 1997. IEEE, Los Alamitos, CA, USA, 97TB100138. p 892-896

Publication Year: 1997

CODEN: 002693 Language: English

Treatment: T; (Theoretical) Document Type: CA; (Conference Article)

Journal Announcement: 9712W2

Abstract: Hand - written address interpretation (HWAI) technology has been recently incorporated into the processing of letter mail by the United States Postal Service. The Remote Bar Coding System, which is an image management system for assigning bar codes to mail that is not fully processed by postal OCRs, have been retrofit with the Remote Computer Reader (RCR) into which the HWAI technology is integrated . A description of the HWAI technology, including its algorithms for the control structure, recognizers and databases is provided. Performance on more than a million hand - written mail-pieces in a field deployment of the integrated RCR-HWAI system are indicated. Future enhancements for a nationwide deployment of the system are indicated. (Author abstract) 5 Refs.

Descriptors: *Optical character recognition; Database systems; Image processing; Data structures; Error detection; Error analysis; Algorithms Identifiers: Handwritten address interpretation

Classification Codes:

741.1 (Light/Optics); 723.3 (Database Systems); 723.2 (Data Processing); 721.1 (Computer Theory, Includes Formal Logic, Automata Theory, Switching Theory, Programming Theory); 921.6 (Numerical Methods) 741 (Optics & Optical Devices); 723 (Computer Software); 721 (Comput Circuits & Logic Elements); 921 (Applied Mathematics)
74 (OPTICAL TECHNOLOGY); 72 (COMPUTERS & DATA PROCESSING); 92

(ENGINEERING MATHEMATICS)

(Item 5 from file: 8) 12/5/5 DIALOG(R)File 8:Ei Compendex(R) (c) 2005 Elsevier Eng. Info. Inc. All rts. reserv.

E.I. No: EIP95032620456

Title: Extended-shadow-code based approach for off-line signature verification: Part - I - evaluation of the bar mask definition

Author: Sabourin, Robert; Genest, Ginette

Corporate Source: Lab d'Imagerie et de Modelisation Tridimensionnelle,

Montreal, Que, Can Conference Title: Proceedings of the 12th IAPR International Conference on Pattern Recognition. Part 2 (of 3)

Conference Location: Jerusalem, Isr Conference Date: 19941009-19941013 Sponsor: IAPR; IEEE; The Information Processing Association of Israel E.I. Conference No.: 42601

Source: Proceedings - International Conference on Pattern Recognition v 2 1994. IEEE, Piscataway, NJ, USA, 94CH3440-5. p 450-453

Publication Year: 1994

ISSN: 1051-4651 CODEN: PICREG

Language: English

Document Type: CA; (Conference Article) Treatment: T; (Theoretical)

Journal Announcement: 9505W2

Abstract: In this paper, the authors present an evaluation of the extended shadow code (ESC) used as a global feature **vector** for the signature verification problem. The proposed class of shape factors seems to be a good compromise between global features related to the general aspect of the signature, and local features related to measurements taken on specific parts of the signature. This is achieved by the bar mask definition, where at low resolution the ESC is related to the overall proportions of the signature. At high resolution, values of the horizontal, vertical and diagonal bars could be related to local measurements taken on specific parts of the signature without requiring low-level handwriting segmentation which is a very difficult task. (Author abstract) 7 Refs.

Descriptors: *Character recognition; Feature extraction; Image analysis;

Image segmentation; Bar codes ; Vectors

Identifiers: Extended shadow code; Off line signature verification; Bar

Classification Codes:

723.2 (Data Processing); 723.5 (Computer Applications); 921.1 (Algebra)

723 (Computer Software); 921 (Applied Mathematics)

(COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS)

(Item 1 from file: 94) DIALOG(R) File 94: JICST-EPlus (c) 2005 Japan Science and Tech Corp(JST). All rts. reserv. JICST ACCESSION NUMBER: 99A0590911 FILE SEGMENT: JICST-E 04149988 Paper Interface by Programs Embedded in Paper.
YAMASHITA DAISUKE (1); HAGIYA MASAMI (1); TAKAGI HIRONOBU (2) (1) Univ. of Tokyo, Grad. Sch.; (2) IBM Japan, Ltd. Joho Shori Gakkai Kenkyu Hokoku, 1999, VOL. 99, NO. 35 (HI-83), PAGE. 25-30, FIG.4, REF.10 JOURNAL NUMBER: Z0031BAO ISSN NO: 0919-6072 UNIVERSAL DECIMAL CLASSIFICATION: 681.3:165 681.51:007.51 681.327.2 COUNTRY OF PUBLICATION: Japan LANGUAGE: Japanese DOCUMENT TYPE: Journal ARTICLE TYPE: Original paper MEDIA TYPE: Printed Publication ABSTRACT: For realizing more "intelligent" paper by helping paper work with computer, we proposed the realization that programs for processing the information on paper and outputing the result on paper are encoded to QR(Quick Response) code which is a kind of two-dimensional barcode, and are embedded in the paper itself. With this, a user can continue the paper work only with paper. Such paper can be copied and distributed numerously, and can be applied to the same way of managing and using normal paper. Moreover, for using such paper without depending on the environment of computer, we provide the API(Application Program Interface) for describing programs embedded in paper. In this paper, we build the API on Java. (author abst.)
DESCRIPTORS: handwritten character recognition; human interface; input output unit; bar code; laser scanner; packaging design; paper; prototyping (computer BROADER DESCRIPTORS: character recognition; figure pattern recognition; pattern recognition; recognition; interface; computer peripheral equipment; equipment; optical instrument; scanner; design; computer system development; development CLASSIFICATION CODE(S): JE07000S; IB03000G; JC04050U

```
Items
Set
                Description
                BARCOD? OR (PRODUCT? OR BAR) () (CODING OR CODE?) OR ISBN OR
S1
       690894
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             OR CODE128 OR CODE()128
       163160
                HANDWRIT? OR HAND() (WRITTEN OR WRITING) OR AUTOGRAPH? OR C-
S2
             URSIV? OR LONGHAND?
S3
                S2(2N)(VECTOR? OR MODULAT? OR ENCRYPT? OR ENCIPHER? OR ENC-
             YPHER? OR STEGANOGRAPH? OR WATERMARK?)
Š4
            0
                S1 (10N) S3
S5
          593
                S1(10N)S2
                S5 (10N) (COMBIN? OR MERG? OR EMBED? OR INTEGRAT? OR INCOR-
S6
             PORAT? OR WATERMARK? OR STEGANOGRAPH?)
           79
S7
                S3 OR S6
                RD (unique items)
S8
           48
·S9
           27
                S8 NOT PY=2000:2005
                S9 NOT PD=20000525:20030525
S10
           27
S11
           2.7
                S10 NOT PD=20030525:20050601
File 275: Gale Group Computer DB(TM) 1983-2005/May 25
         (c) 2005 The Gale Group
      47: Gale Group Magazine DB(TM) 1959-2005/May 25
File
         (c) 2005 The Gale group
File 75:TGG Management Contents(R) 86-2005/May W3
         (c) 2005 The Gale Group
File 636:Gale Group Newsletter DB(TM) 1987-2005/May 25
         (c) 2005 The Gale Group
      16:Gale Group PROMT(R) 1990-2005/May 24
         (c) 2005 The Gale Group
File 624:McGraw-Hill Publications 1985-2005/May 25
         (c) 2005 McGraw-Hill Co. Inc
File 484: Periodical Abs Plustext 1986-2005/May W4
         (c) 2005 ProQuest
File 613:PR Newswire 1999-2005/May 25
         (c) 2005 PR Newswire Association Inc
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
File 141: Readers Guide 1983-2005/Dec
         (c) 2005 The HW Wilson Co
File 239:Mathsci 1940-2005/Jun
         (c) 2005 American Mathematical Society
File 370:Science 1996-1999/Jul W3
         (c) 1999 AAAS
File 696:DIALOG Telecom. Newsletters 1995-2005/May 24
         (c) 2005 The Dialog Corp.
File 553: Wilson Bus. Abs. FullText 1982-2004/Dec
         (c) 2005 The HW Wilson Co
File 621: Gale Group New Prod. Annou. (R) 1985-2005/May 25
         (c) 2005 The Gale Group
File 674: Computer News Fulltext 1989-2005/May W3
         (c) 2005 IDG Communications
     88:Gale Group Business A.R.T.S. 1976-2005/May 24
         (c) 2005 The Gale Group
File 369:New Scientist 1994-2005/Apr W2
(c) 2005 Reed Business Information Ltd.
File 160: Gale Group PROMT (R) 1972-1989
         (c) 1999 The Gale Group
File 635:Business Dateline(R) 1985-2005/May 25
         (c) 2005 ProQuest Info&Learning
File
      15:ABI/Inform(R) 1971-2005/May 25
         (c) 2005 ProQuest Info&Learning
       9:Business & Industry(R) Jul/1994-2005/May 24
File
         (c) 2005 The Gale Group
     13:BAMP 2005/May W3
File
         (c) 2005 The Gale Group
File 810:Business Wire 1986-1999/Feb 28
         (c) 1999 Business Wire
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- File 610:Business Wire 1999-2005/May 25 (c) 2005 Business Wire.
- File 647:CMP Computer Fulltext 1988-2005/May W1
 - (c) 2005 CMP Media, LLC
- File 98:General Sci Abs/Full-Text 1984-2004/Dec
 - (c) 2005 The HW Wilson Co.
- File 148:Gale Group Trade & Industry DB 1976-2005/May 25
 - (c)2005 The Gale Group
- File 634:San Jose Mercury Jun 1985-2005/May 24 (c) 2005 San Jose Mercury News File 80:TGG Aerospace/Def Mkts(R) 1982-2005/May 25
 - (c) 2005 The Gale Group
- File 587: Jane's Defense&Aerospace 2005/May W4
 - (c) 2005 Jane's Information Group
- File 264:DIALOG Defense Newsletters 1989-2005/May 23
- (c) 2005 The Dialog Corp. File 248:PIRA 1975-2005/May W2
 - (c) 2005 Pira International

```
Set
         Items
                  Description
                  BARCOD? OR (PRODUCT? OR BAR) () (CODING OR CODE?) OR ISBN OR
S1
         37237
               UPC OR UNIVERSAL() PRODUCT() CODE? OR EAN OR POSTNET OR CODABAR
               OR CODE128 OR CODE()128
                  HANDWRIT? OR HAND() (WRITTEN OR WRITING) OR AUTOGRAPH? OR C-
S2
         11104
               URSIV? OR LONGHAND?
                  S2(2N) (VECTOR? OR MODULAT? OR ENCRYPT? OR ENCIPHER? OR ENC-
S<sub>3</sub>
               YPHER? OR STEGANOGRAPH? OR WATERMARK?)
S4
             24
                  S1 AND S3
                  S1(10N)S3
S5
              0
S6
        206571
                   IC=(G06F OR H04L OR G09C OR H04K)
S7
             . 2
                  S4 AND S6
                  S1 (2N) S2
             27
S8
                  S6 AND S8
S9
             10
S10
             12
                  S7 OR S9
S11
             12
                   IDPAT (sorted in duplicate/non-duplicate order)
S12
            12
                  IDPAT (primary/non-duplicate records only)
File 348:EUROPEAN PATENTS 1978-2005/May W03
(c) 2005 European Patent Office
File 349:PCT FULLTEXT 1979-2005/UB=20050519,UT=20050512
          (c) 2005 WIPO/Univentio
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```
Set
        Items
                Description
                BARCOD? OR (PRODUCT? OR BAR) () (CODING OR CODE?) OR ISBN OR
S1
        31999
             UPC OR UNIVERSAL() PRODUCT() CODE? OR EAN OR POSTNET OR CODABAR
             OR CODE128 OR CODE()128
                HANDWRIT? OR HAND() (WRITTEN OR WRITING) OR AUTOGRAPH? OR C-
S2
        11373
             URSIV? OR LONGHAND?
                S2(2N) (VECTOR? OR MODULAT? OR ENCRYPT? OR ENCIPHER? OR ENC-
S3
             YPHER? OR STEGANOGRAPH? OR WATERMARK?)
S4
                S1 AND S3
          110
                S1 AND S2
S5
S6
                S5 AND (VECTOR? OR MODULAT? OR ENCRYPT? OR ENCOD? OR ENCYP-
            6
             HER? OR ENCIPHER? OR STEGANOGRAPH? OR WATERMARK?)
S.7
           11
                S1 (2N) S2
S8
                S6 OR S7
           16
                S5 AND IC=H04L-009
S9
            1
S10
           49
                S5 AND IC=(H04L-009? OR G06F)
                S5 AND IC=(H04L-009 OR G09C OR H04K)
S11
            1
S12
           19
                S5 AND (EMBED? OR HIDE? OR HIDDEN OR HIDING OR INCORPORAT?
             OR INTEGRAT? OR COMBIN? OR MERG?)
           71
                S8 OR S9 OR S10 OR S11 OR S12
S13
                S13 AND IC=(G06F OR H04L OR H04K OR G09C)
S14
           49
                S14 NOT AD=20000525:20030525
S15
           25
S16
           23
                S15 NOT AD=20030525:20050601
           23
                IDPAT (sorted in duplicate/non-duplicate order)
S17
                IDPAT (primary/non-duplicate records only)
S18
           21
File 347: JAPIO Nov 1976-2005/Jan (Updated 050506)
         (c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200533
         (c) 2005 Thomson Derwent
```

(Item 3 from file: 350) 18/5/3 DIALOG(R) File 350: Derwent WPIX (c) 2005 Thomson Derwent. All rts. reserv.

Image available 011651139 WPI Acc No: 1998-068047/199807

XRPX Acc No: N98-053855

Vehicle mounted in OCR system with automatic voucher receiving/delivering facility using mobile communication system in goods transportation industry - has transmitting unit to transmit code information and compressed image information to computer which then registers it

Patent Assignee: NEC CORP (NIDE)
Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week JP 9305676 Α 19971128 JP 96148667 Α 19960520 199807 B

Priority Applications (No Type Date): JP 96148667 A 19960520 Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes JP 9305676 7 G06F-017/60 Α

Abstract (Basic): JP 9305676 A

The system includes an input unit (11) to input image information which is then cut by a cutting unit (21) into a barcode , OCR font, handwritten character and optical mark reader dot image. A first recognition unit (22) recognises the first code information of the barcode . A second recognition unit (23) recognises the second code

information of OCR font, handwritten character and reader dot image.

An image compressor (24) compresses the image information. A memory (31) stores the compressed image information and the recognised code information. A transmitting unit (41) transmits the contents of the memory to a computer installed in the office through a mobile communication system. The received information is then registered in the computer.

ADVANTAGE - Eliminates need for performing barcode scanning. Corrects code information referring to voucher image. Dwg.1/4

Title Terms: VEHICLE; MOUNT; OCR; SYSTEM; AUTOMATIC; VOUCHER; RECEIVE; DELIVER; FACILITY; MOBILE; COMMUNICATE; SYSTEM; GOODS; TRANSPORT; INDUSTRIAL; TRANSMIT; UNIT; TRANSMIT; CODE; INFORMATION; COMPRESS; IMAGE; INFORMATION; COMPUTER; REGISTER

Derwent Class: T01; T04; W01; W02

International Patent Class (Main): G06F-017/60

International Patent Class (Additional): G06K-009/00; H04Q-007/38

File Segment: EPI

18/5/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent All rts. reserv.

010883840 **Image available**
WPI Acc No: 1996-380791/199638

XRPX Acc No: N96-321006

Hand - written information processor for printing address on parcel delivery voucher - has image arrangement part which arranges pattern data cut off from image stored in image memory at specified position

Patent Assignee: TOPPAN MOORE KK (TOPP)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
JP 8185451 A 19960716 JP 94328592 A 19941228 199638 B

Priority Applications (No Type Date): JP 94328592 A 19941228 Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 8185451 A 4 G06F-019/00

Abstract (Basic): JP 8185451 A

The appts consists of a hand writing input pad (10) on which the name and address are written by hand. An image memory (12) stores the contents of the handwriting input pad in the form of an image. An image cut-off part (16) cuts out the pattern data of required part from the image stored in the memory. An image arrangement part (18) arranges cut-off pattern data in specified position. The output of the image arrangement part is input to a printer (20) which outputs the voucher in which handwritten contents are printed. An information comparison part (24) performs information compression of output of the image cut-off part.

A 2D bar coding part (26) converts the output of the compression part into a 2D bar code. The bar code is printed on a paper card (28). A bar code reading part (32) reads the 2D bar code from the card. An expansion part (34) performs expansion of the 2D bar code and outputs it to the image arrangement part. Then, printing is performed by the printer.

ADVANTAGE - Prevents writing same contents by hand on multiple vouchers. Saves time. Improves efficiency.

Dwg.1/2

Title Terms: HAND; WRITING; INFORMATION; PROCESSOR; PRINT; ADDRESS; PARCEL; DELIVER; VOUCHER; IMAGE; ARRANGE; PART; ARRANGE; PATTERN; DATA; CUT; IMAGE; STORAGE; IMAGE; MEMORY; SPECIFIED; POSITION

Derwent Class: T01; T04

International Patent Class (Main): G06F-019/00

International Patent Class (Additional): G06F-017/22; G06K-009/20

File Segment: EPI

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(Item 6 from file: 350)
DIALOG(R) File 350: Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.
009417566
             **Image available**
WPI Acc No: 1993-111080/199314
XRPX Acc No: N93-084596
Training system for neural networks used in automated recognition of
  handwritten script - uses extraction of tangent vector data from
symbols during learning phase for faster classification during operation Patent Assignee: AMERICAN TELEPHONE & TELEGRAPH CO (AMTT ); AT & T CORP
Inventor: DENKER J S; LECUN Y A; SIMARD P Y; LE CUN Y A
Number of Countries: 005 Number of Patents: 006
Patent Family:
Patent No
              Kind
                     Date
                             Applicat No
                                             Kind
                                                    Date
                                                             Week
EP 535786
                  19930407
              A2
                             EP 92306749
                                                  19920723
                                                            199314
                                             Α
CA 2069811
               Α
                   19930404
                             CA 2069811
                                              Α
                                                  19920528
                                                            199325
EP 535786
               A3
                  19940209
                             EP 92306749
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                                                  19920723
CA 2069811
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                   19980811
                             CA 2069811
                                                 19920528
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                                                            199843
EP 535786
               B1
                   19990210
                             EP 92306749
                                             Α
                                                  19920723
                                                            199911
DE 69228412
                             DE 628412
               E
                   19990325
                                             Α
                                                  19920723
                                                            199918
                             EP 92306749
                                             Α
                                                  19920723
Priority Applications (No Type Date): US 91770267 A 19911003
Cited Patents: No-SR.Pub; 2.Jnl.Ref; DE 4217832
Patent Details:
Patent No Kind Lan Pq
                         Main IPC
                                     Filing Notes
              A2 E 23 G06K-009/66
EP 535786
   Designated States (Regional): DE FR GB NL
              B1 E
                       G06K-009/66
   Designated States (Regional): DE FR GB NL
                       G06K-009/66
DE 69228412
             E
                                    Based on patent EP 535786
CA 2069811
              Α
                       G06F-015/18
EP 535786
              A3
                       G06K-009/66
CA 2069811
              C
                       G06F-015/18
Abstract (Basic): EP 535786 A
        The neural network is trained to recognise alphanumeric symbols and
    comprises a symbol input device, a neural net with trainable adjustable
    parameters, and an output classifier.
        The net parameters are trained to classify each member of a set of
    known alphanumeric inputs. The parameters are then trained to classify
    spatially modified members of the set. The set members are transformed
    and used to generate tangent vector information, and the parameters
    adjusted to include tangent vector information in the output
    classification. The output of the classifier is designated as machine
    readable bar code and applied to the envelope.
        USE/ADVANTAGE - For sorting mail. Faster training and recognition
       handwritten script by use of symbol invariants.
        Dwg.10/12
Title Terms: TRAINING; SYSTEM; NEURAL; NETWORK; AUTOMATIC; RECOGNISE;
  HANDWRITING; SCRIPT; EXTRACT; TANGENT; VECTOR; DATA; SYMBOL; LEARNING;
  PHASE; FAST; CLASSIFY; OPERATE
Index Terms/Additional Words: MAIL;
Derwent Class: T01; T04; T05
International Patent Class (Main): G06F-015/18; G06K-009/66
International Patent Class (Additional): G06F-015/80
```

File Segment: EPI

18/5/12 (Item 12 from file: 347) DIALOG(R) File 347: JAPIO (c) 2005 JPO & JAPIO. All rts. reserv.

07097411 **Image available**

INFORMATION PROCESSING, HANDWRITTEN INFORMATION PROCESSING HANDWRITTEN SYSTEM AND INFORMATION RECORDING MEDIUM

PUB. NO.:

2001-325067 [JP 2001325067 A]

PUBLISHED:

November 22, 2001 (20011122)

INVENTOR(s):

HATTORI HITOSHI

FURUTA TOSHIYUKI BEPPU TOMOHIKO

APPLICANT(s): RICOH CO LTD

APPL. NO.:

2000-145696 [JP 2000145696].

FILED:

May 17, 2000 (20000517)

INTL CLASS:

G06F-003/03

ABSTRACT

PROBLEM TO BE SOLVED: To provide a handwritten information processor and handwritten information processing system and an information recording capable of ensuring security of document information and satisfactory handleability.

SOLUTION: This handwritten information processor for generating data corresponding to characters written by hand on an information recording medium is provided with a memory 4 for storing data, a bar code reader 33 for reading a first password written in the information recording medium, a discriminating circuit 3 for discriminating whether a first password read by the bar code reader 33 matches a previously set second password, and a control circuit 5 for allowing the memory 4 to store the data, when it is discriminated by the discriminating circuit 3 that the first password matches the second password.

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18/5/15 (Item 15 from file: 347)

DIALOG(R) File 347: JAPIO

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06111920 **Image available** SLIP ISSUING SYSTEM

PUB. NO.:

11-053453 [JP 11053453 A] February 26, 1999 (19990226)

PUBLISHED:

SHIGEKUSA HISASHI

INVENTOR(s):

OSHIMA TADAO FUJIMOTO SUNAO OKAMOTO HIROSHI TANO ATSUSHI KUROBE TAKAHIRO

APPLICANT(s): DENSO CORP

APPL. NO.:

09-210909 [JP 97210909]

FILED:

August 05, 1997 (19970805)

INTL CLASS:

G06F-019/00 ; B41J-029/38; G06F-017/60 ; G07D-009/00

ABSTRACT

PROBLEM TO BE SOLVED: To perform delivering operation efficiently by making a radio communication between the portable information terminal device that a person carries and the vehicle-side information management device mounted on a vehicle and printing necessary information on a slip at the portable information terminal side.

SOLUTION: Only the telephone numbers of a sender and a recipient are inputted to the portable information terminal device and sent to the vehicle-side information management device. The vehicle-side information management device retrieves customer information such as addresses and names corresponding to the telephone number by referring to a customer information database. When no customer information is found, that is transmitted to the portable information terminal device. In this case, the portable information terminal device allows handwriting input to a slip display part 12b using an input pen 16 and reads handwritten characters through specific converting operation to input the characters. Then a two-dimensional bar representing the inputted data in two code dimensions is generated and then a printer part 13 prints the same display contents as the slip display part 12b and outputs them on a slip.

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18/5/21 (Item 21 from file: 347)
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00496348 INVOICE TERMINAL PROCESSOR

PUB. NO.: 54-148348 [JP 54148348 A]

PUBLISHED: November 20, 1979 (19791120)
INVENTOR(s): HOSOKAWA TAKEHIKO

YAMAGUCHI TETSUO
OCHIAI HIDEHIRO
NISHIYAMA AKIRA
INOHARA MITSUTERU

APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD [000582] (A Japanese Company

or Corporation), JP (Japan)
APPL. NO.: 53-056916 [JP 7856916]
FILED: May 12, 1978 (19780512)

FILED: May 12, 1978 (19780512) INTL CLASS: [2] G06F-015/24

JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications)
JAPIO KEYWORD:R107 (INFORMATION PROCESSING -- OCR & OMR Optical Readers)
JOURNAL: Section: E, Section No. 166, Vol. 04, No. 8, Pg. 72, January

22, 1980 (19800122)

ABSTRACT

PURPOSE: To read out through the optical device the invoice No., the hand - written names of the consignor and consignee and others for memorization and then printing, and thus to omit the key-in and reading procedures for them directly or changing into katakana (Japanese syllabary).

CONSTITUTION: Invoice 1 is inserter to inserter 2, and the necessary information is inserted through keymat (e). When the insertion of the information is over, drum 8 is turned by motor 27 to roll invoice 1 in and then to set the center lines of the names of the consignor and the consignee and others written by hand on the invoice right above image sensor block 13. Then the image sensor is scanned, and thus the hand - written information is read out and processed through computer (a) to be memorized in memory unit (b). With turning of drum 8, the bar code of the invoice No. is set right above block 13 to carry out the same process. Invoice 1 then stops at printer block 24 through rotations of drum 8 to print the information sent from computer (a). With end of the printing, invoice 1 is sent outside via roller 30 and guide 31.